

IN THE UNITED STATES PATENT OFFICE

1/2

Application Serial No. (To be assigned) Our Ref. : P-1459(O)
Entry into National Phase from PCT/CA97/00172

Applicants: Hyal Pharmaceutical Attorney : Ivor M. Hughes
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Title: METHODS FOR CELL MOBILIZATION
 USING IN VIVO TREATMENT WITH
 HYALURONAN

Inventor: Linda May Pilarski

September 10, 1998

The Commissioner of Patents
UNITED STATES PATENT OFFICE
2011 South Clark Place
Crystal Plaza 2, Room 1B03
Arlington, Virginia 22202 U.S.A.

Dear Sir:

**INFORMATION DISCLOSURE
STATEMENT**

Applicants and the undersigned are aware of "patents, publication, or other information" which they believe may be material to the examination of the above-identified application. One sheet of Form PTO-1449 listing them, is submitted herewith pursuant to 37 C.F.R. §§ 1.97-1.99 and to the duty of disclosure set forth in 37. C.F.R. § 1.56.

Although this Information Disclosure Statement identifies references which may be "material," it is not intended to constitute an admission that any patent, publication, or other information referred to is "prior art" (within the meaning of 35 U.S.C. § 102 103) as to the invention disclosed and claimed in this application unless specifically designated as such. Moreover, no representation is intended as to the relative relevance of any portion of the

references or as to the relevance among references, whether cited in this Statement or elsewhere.

In accordance with 37 C.F.R. § 1.97(b), the filing of this Information Disclosure Statement shall not be construed to mean that a novelty search has been made or that no other information which may be material (as defined in 37. C.F.R. § 1.56(a)) exists.

U.S. PATENT DOCUMENTS

<u>Document Number</u>	<u>Date</u>	<u>Name</u>
4,725,585	February 16, 1988	Wenge Per S.W., et al
4,141,973	February 27, 1979	Balazs, Endre A.

FOREIGN PATENT DOCUMENTS

<u>Document Number</u>	<u>Date</u>	<u>Name</u>
<u>Canada</u>		
1,205,031	May 27, 1986	Lorenzi, S., et al

PCT Application

WO96/05845	February 29, 1996
WO91/04058	April 4, 1991

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Gowland G., et al
Marked Enhanced Efficacy of Cyclosporin When Combined With Hyaluronic Acid Evidence From Two T Cell-Mediated Models.
Clinical Drug Investigation, Vol. 11, No. 4, 1996, Pages 245-250, XPOOO613356

Toole, B.P.
Hyaluronan and its binding proteins, the hyaladherins.
Curr. Opin. Cell. Biol. 2: 839-844 (1990)

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Conn. Tiss. Res. 10: 93-100 (1982)

Entwistle, J. Zhang, S., Yang, B., Wong, C. Hall, C.L., Curpen, G., Mowat M., Greenberg, A.H., and Turley, E.A.

Cloning and characterization of the gene encoding the hyaluronan receptor RHAMM; the role of a secreted isoform in the regulation of focal adhesion formation.

Gene 163: 233-238 (1995)

Yang, B., Yang, X. Zhang, S., Turley, M., Samuel, S., Savani, R.C., Greenberg, A.H., and Turley, E.A.

Overexpression of the hyaluronan receptor RHAMM is transforming, and is required for H-ras transformation.

Cell 82: 19-28 (1995)

Masellis-Smith, A., Belch, A.R., Mant, M.J., Turley, E.A., and Pilarski, L.M.

Hyaluronan-dependent motility of B cells and leukemic plasma cells in multiple myeloma: Alternate usage of RHAMM and CD44.

Blood 87: 1891-1899 (1996)

Turley, E.A., Belch, A.R., Poppema, S., and Pilarski, L.M.

Expression and function of a receptor for hyaluronan-mediated motility (RHAMM) on normal and malignant B lymphocytes.

Blood 81: 446-453 (1993)

Pilarski, L.M., Miszta, H., and Turley, E.A.

Regulation expression of a receptor for hyaluronan-mediated motility RHAMM on human thymocytes and T cells

J. Immunol. 150: 4292-4302 (1993)

S. K.B., McCoshen, J., Kredentser, J., and Turley, E.

The Regulation of Sperm Motility by a Novel Hyaluronan Receptor.

Fertility and Sterility 61: 935-940 (1994)

Turely, E.A., Sossain, M.Z., Sorokan, T., Jordan, L.M. and Nagy, J.I.

Astrocyte and microglial motility in vitro is functionally dependent on the hyaluronan receptor RHAMM

Glia 12: 68-80 (1994)

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Weaver, C.H., Hazeltonn, B., Birch, R., Palmer, P., Allen, A., Schwartzberg, L. and West, W.

An analysis of engraftment kinetics as a function of the CD34 content of peripheral blood progenitor cell collections in 692 patients after the administration of myeloablative chemotherapy

Blood 86: 3961-3969 (1995)

Boiron, J.M., Marit, G., Faberes, C., Cony-Makhoul, P., Foures, C., Ferrer, A.M., Cristol, G., Sarrat, A., Girault, D., and Reiffers, J.

Collection of peripheral blood stem cells in multiple myeloma following single high-dose cyclophosphamide with and without recombinant human granulocyte-macrophage colony-stimulating factor (rh GM-CSF).

Bone Marrow Transplantation 12: 49-55 (1993)

Schiller, G., Vescio, R., Freytes, C., Spitzer, G., Sahebi, F., Lee, M., Wu, S.H., Cao, J., Lee, J.C., Hong, C.H., Lichtenstein, A., Lill, M., Hall, J., Berenson, R., and Berenson, J.

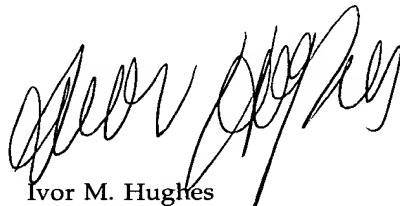
Transplantation of CD34+ peripheral blood progenitor cells after high-dose chemotherapy for patients with advanced multiple myeloma.

Blood 86: 390-397 (1995)

If the Examiner wishes to discuss this matter with Applicant's agent, he/she is respectfully requested to contact Ivor M. Hughes or Samuel T. Tekie at (905) 771-6414 collect at her convenience.

Respectfully submitted,

HUGHES, ETIGSON



Ivor M. Hughes
Registration No. 27,759
Agent for Applicant

IMH/mse
Enclosures

CITATION OF PRIOR ART

Sheet 1 of 2

FORM PTO-1449 (REV. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 1459(O)	APPLICATION SERIAL NO. PCT/CA97/00172
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Linda May Pilarski	
		FILING DATE 03/12/97	GROUP ART UNIT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,725,585	02/16/88	Wenge, Per S.W., et al			
	4,141,973	02/27/79	Balazs, Endre A.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	1,205,031	05/27/86	Canada			
	WO96/05845	02/29/96	PCT			
	WO91/04058	04/04/91	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Gowland G., et al Marked Enhanced Efficacy of Cyclosporin When Combined With Hyaluronic Acid Evidence From Two T Cell-Mediated Models. <i>Clinical Drug Investigation, Vol. 11, No. 4, 1996, Pages 245-250, XPOOO613356</i>
	Toole, B.P. Hyaluronan and its binding proteins, the hyaladherins. <i>Curr. Opin. Cell. Biol. 2: 839-844 (1990)</i>
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	Entwistle, J. Zhang, S., Yang, B., Wong, C. Hall, C.L., Curpen, G., Mowat M., Greenberg, A.H., and Turley, E.A. Cloning and characterization of the gene encoding the hyaluronan receptor RHAMM; the role of a secreted isoform in the regulation of focal adhesion formation. <i>Gene 163: 233-238 (1995)</i>
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	<p>S. K.B., McCoshen, J., Kredentser, J., and Turley, E. The Regulation of Sperm Motility by a Novel Hyaluronan Receptor. <i>Fertility and Sterility</i> 61: 935-940 (1994)</p>
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	<p>Golub, E.S., Green, D.R. Immunology A Synthesis. 2:205, (1991)</p>
	<p>Kuby, J. Immunology 3:50; (1997)</p>
	<p>Roitt, I., Brostoff, J., Male, D. Immunology 4:2.1</p>
	<p>Weaver, C.H., Hazeltonn, B., Birch, R., Palmer, P., Allen, A., Schwartzberg, L. and West, W. An analysis of engraftment kinetics as a function of the CD34 content of peripheral blood progenitor cell collections in 692 patients after the administration of myeloablative chemotherapy. <i>Blood</i> 86: 3961-3969 (1995)</p>
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EXAMINER	
DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	